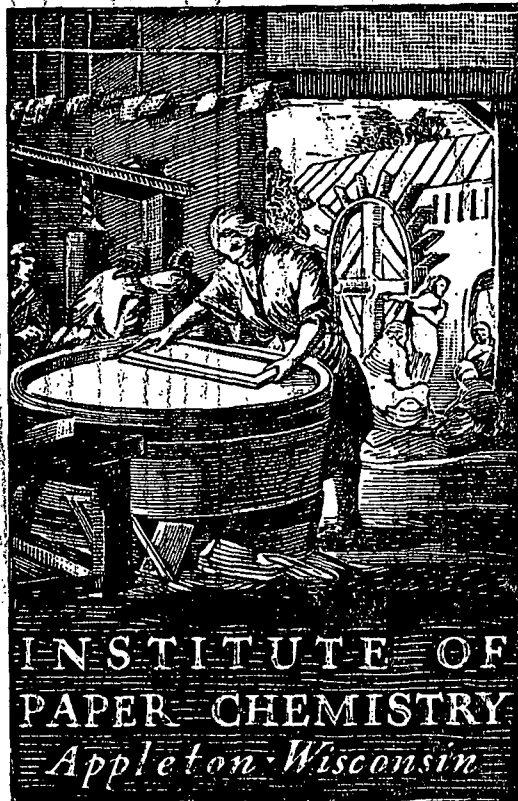


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## **PRODUCTION DATA REPORT**

✓ Project 1108-13

Supplementary Report Thirty

to

**FOURDRINIER KRAFT BOARD INSTITUTE, INC.**

May 1, 1960

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the first quarter of 1960:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

North Carolina Pulp Co. & Kieckhefer Container Co.

Olin Mathieson Chemical Corp., Forest Products Division

Owens-Illinois Glass Company, Mill Division

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag-Camp Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters. The total production data for the first quarter of 1960 is given in Table I together with, for purposes of comparison, the total production data by quarters for 1957, 1958, and 1959. The total production data by quarters for 1957 through 1960 to date are illustrated graphically in Figure 1.

Production data on a quarterly basis for 1959 and 1960 to date are shown in Table II for the major grades and in Table III for all grades. In

Table IV the percentage of total production which each grade represents is given on a quarterly basis for 1959 and 1960 to date. These percentage figures for each grade are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The current tonnage data for the major grades--namely, 26 lb., 33 lb., 38 lb., 42 lb., 47 lb., 69 lb., 90 lb., and miscellaneous--are illustrated graphically in Figure 2 through 9, respectively, on a quarterly basis from 1957 through 1960 to date. Also shown in Figures 2 through 9 is the percentage of total production which each major grade represents.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are numerous comparisons which may be of interest, some of which are the following:

1. The total production of all grades for the first quarter of 1960 was 1,015,716 tons. It may be noted in Table I that production has exceeded one

million tons continuously since the second quarter of 1959.

2. Compared with the tonnages for the fourth quarter of 1959, tonnages of all major grades (except 47 lb. and miscellaneous) increased during the first quarter of 1960 as may be noted in Table II. The production of 47-lb. decreased only slightly whereas the production of miscellaneous decreased substantially.

TABLE I

TOTAL TONNAGE OF ALL GRADES

	1957	1958	1959	1960
1st Quarter	932,706	836,013	902,850	1,015,716
2nd Quarter	946,959	793,764	1,013,064	
3rd Quarter	924,262	919,520	1,086,571	
4th Quarter	914,979	940,090	1,007,280	
Total	3,718,906	3,489,387	4,009,765	

TABLE II

TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1959 AND 1960

<u>1959</u>				
Grade	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
26 lb.	51,621	58,875	68,524	50,098
33 lb.	60,863	70,192	72,824	58,175
38 lb.	84,859	100,366	103,065	89,433
42 lb.	402,410	428,855	471,099	411,105
47 lb.	22,662	20,212	22,078	22,581
69 lb.	130,840	135,644	124,987	130,795
90 lb.	59,537	67,828	66,338	61,407
Misc.	66,738	110,483	136,277	149,606
<u>1960</u>				
26 lb.	52,104			
33 lb.	74,129			
38 lb.	95,317			
42 lb.	430,543			
47 lb.	21,640			
69 lb.	136,422			
90 lb.	68,688			
Misc.	111,493			

TABLE III  
TONNAGE OF ALL GRADES BY QUARTERS

Grade	1959				1960	
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	
26 lb.	51,621	58,875	68,524	50,098	52,104	
27 lb.	--	64	--	--	--	
28 lb.	1,374	363	340	640	847	
30 lb.	1,013	429	1,612	164	884	
32 lb.	1,431	1,214	863	9,274	957	
33 lb.	60,863	70,192	72,824	58,175	74,129	
34 lb.	--	171	276	170	429	
35 lb.	--	--	--	--	--	
36 lb.	--	40	1,217	1,407	973	
37 lb.	--	--	--	--	--	
38 lb.	84,859	100,366	103,065	89,433	95,317	
41 lb.	--	--	--	61	--	
42 lb.	402,410	428,855	471,099	411,105	430,543	
43.5 lb.	75	150	274	241	232	
45 lb.	13,720	13,479	11,026	9,773	10,752	
46 lb.	--	--	--	--	429	
47 lb.	22,662	20,212	22,078	22,581	21,640	
48 lb.	--	--	71	--	--	
50 lb.	531	476	967	692	1,078	
51 lb.	176	--	--	53	--	
52 lb.	495	1,144	909	678	255	
53 lb.	--	--	82	114	--	
55 lb.	27	25	--	25	--	
56 lb.	81	168	221	214	158	
60 lb.	--	--	--	101	30	
61 lb.	--	--	37	33	87	
62 lb.	92	113	626	1,456	702	
63 lb.	--	--	--	--	32	
64 lb.	3,338	2,395	2,177	8,514	6,627	
65 lb.	56	45	28	49	27	

TABLE III--CONTINUED  
TONNAGE OF ALL GRADES BY QUARTERS

Grade	1959				1960	
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	
69 lb.	130,840	135,644	124,987	130,795	136,422	
72 lb.	--	--	19	--	--	
75 lb.	--	--	351	--	--	
76 lb.	199	--	--	102	449	
82 lb.	--	--	--	159	228	
85 lb.	712	568	283	160	204	
90 lb.	59,537	67,828	66,338	61,407	68,688	
Misc.	66,738	110,483	136,277	149,606	111,493	



TABLE IV

PERCENTAGE OF TOTAL PRODUCTION REPRESENTED BY EACH GRADE

Grade	1959				1960			
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>
26 lb.	5.7	6.2	5.8	6.5	6.3	7.2	5.0	5.8
27 lb.	--	--	c	c	--	--	--	--
28 lb.	0.2	0.2	c	c	0.1	0.2	0.1	0.1
30 lb.	0.1	0.1	c	c	0.1	0.1	0.9	1.1
32 lb.	0.2	0.2	0.1	0.1	0.1	0.1	5.8	6.8
33 lb.	6.7	7.3	6.9	7.8	6.7	7.7	--	--
34 lb.	--	--	c	c	c	c	c	c
35 lb.	--	--	--	--	--	--	0.1	0.1
36 lb.	--	--	c	c	0.1	0.1	--	--
37 lb.	--	--	--	--	--	--	9.4	10.5
38 lb.	9.4	10.1	9.9	11.1	9.5	10.8	8.9	10.4
41 lb.	--	--	--	--	--	--	c	c
42 lb.	44.5	48.1	42.3	47.5	43.4	49.6	40.8	47.9
43.5 lb.	c	c	c	c	c	c	c	c
45 lb.	1.5	1.6	1.3	1.5	1.0	1.2	1.0	1.1
46 lb.	--	--	--	--	--	--	--	--
47 lb.	2.5	2.7	2.0	2.2	2.0	2.3	2.2	2.6
48 lb.	--	--	--	--	c	c	--	--
50 lb.	0.1	0.1	c	0.1	0.1	0.1	0.1	0.1
51 lb.	c	c	--	--	--	--	c	c
52 lb.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
53 lb.	--	--	--	--	c	c	c	c
55 lb.	c	c	c	c	--	--	c	c
56 lb.	c	c	c	c	c	c	c	c
59 lb.	--	--	--	--	--	--	--	--
60 lb.	--	--	--	--	--	--	c	c

TABLE IV--CONTINUED  
PERCENTAGE OF TOTAL PRODUCTION REPRESENTED BY EACH GRADE

Grade	1959				1960	
	1st Qtr. With <sup>a</sup> out <sup>b</sup>	2nd Qtr. With <sup>a</sup> out <sup>b</sup>	3rd Qtr. With <sup>a</sup> out <sup>b</sup>	4th Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>	1st Qtr. With <sup>a</sup> out <sup>b</sup>
61 lb.	--	--	--	--	--	--
62 lb.	c	c	c	c	c	c
63 lb.	--	--	--	--	0.1	0.1
64 lb.	0.4	0.2	0.2	0.8	c	c
65 lb.	c	c	c	c	0.7	0.7
69 lb.	14.5	13.4	11.5	13.0	c	c
	15.6	15.0	13.2	15.2	13.4	15.1
72 lb.	--	--	--	--	--	--
75 lb.	--	--	c	--	--	--
76 lb.	--	--	c	--	--	--
82 lb.	--	--	--	c	c	c
85 lb.	0.1	0.1	--	--	c	c
90 lb.	6.6	6.7	6.1	6.1	c	c
	7.1	7.5	7.0	7.2	6.8	7.6
Misc.	7.4	10.9	12.5	14.9	11.0	

<sup>a</sup> Percentage based on the total production of all grades including miscellaneous.

<sup>b</sup> Percentage based on the total production of all grades excluding miscellaneous.

<sup>c</sup> Less than one-tenth of one per cent after being rounded off.

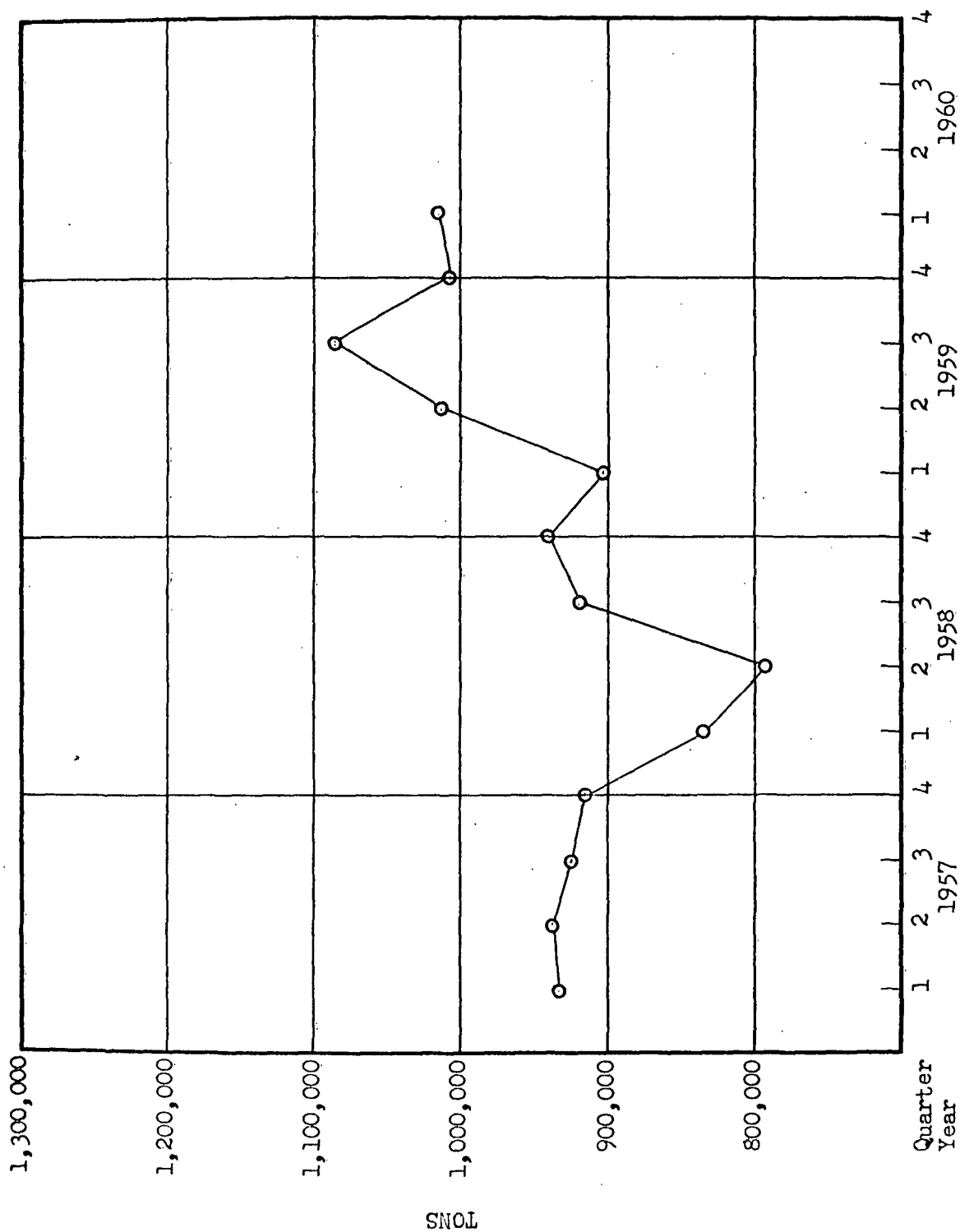


Figure 1. Total Production of All Grades

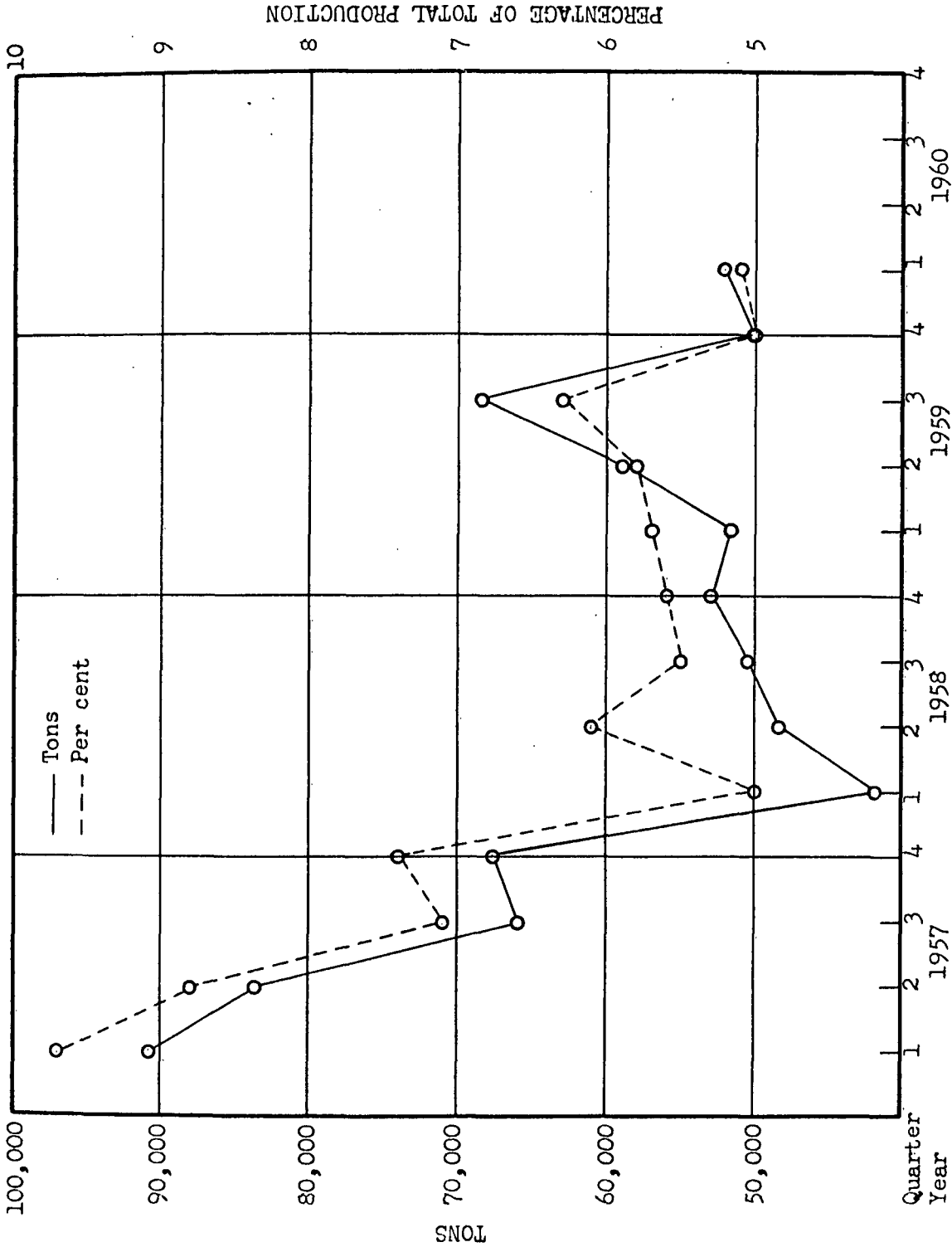


Figure 2. Production, 26 lb.

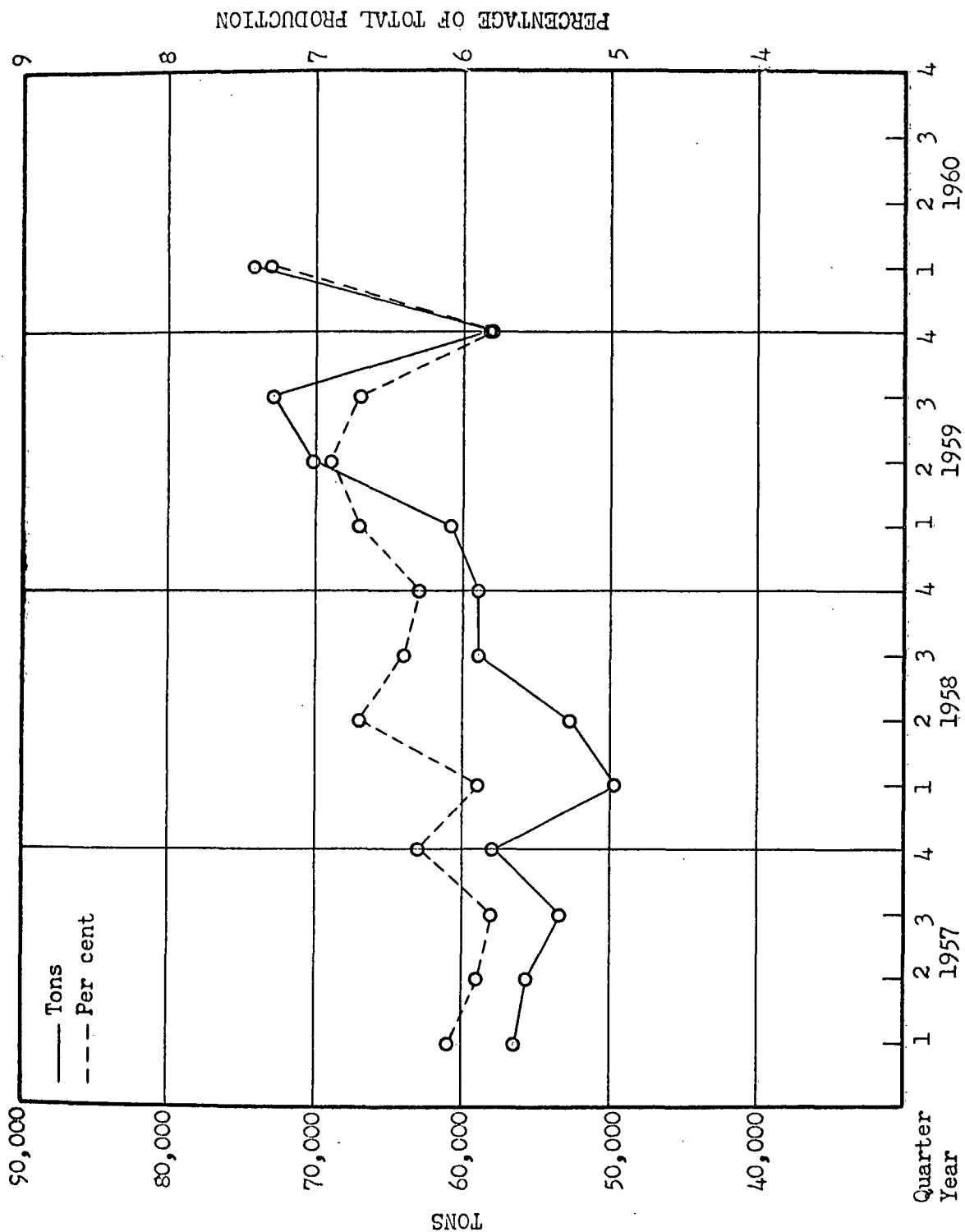


Figure 3. Production, 33 lb.

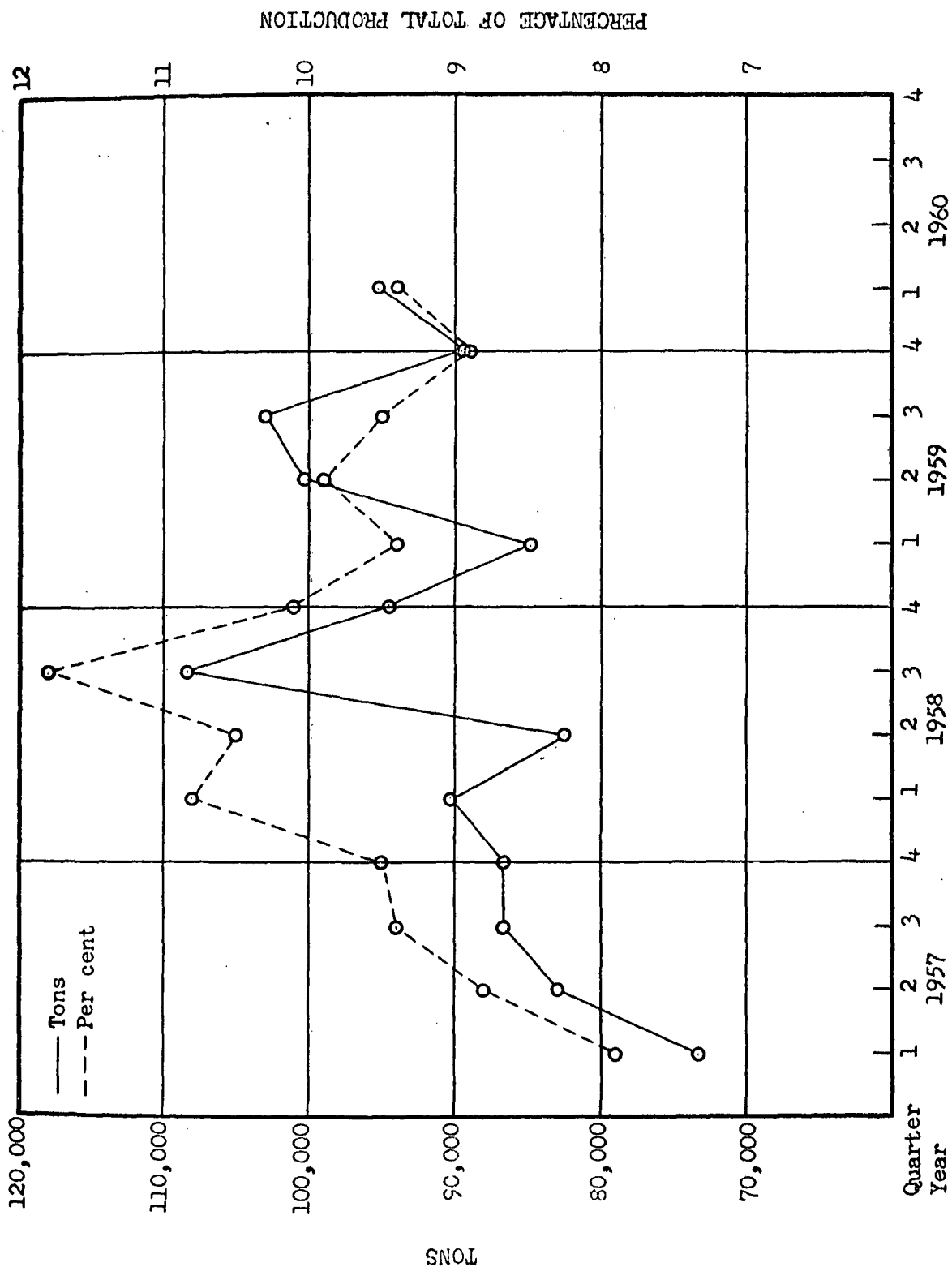


Figure 4. Production, 38 lb.

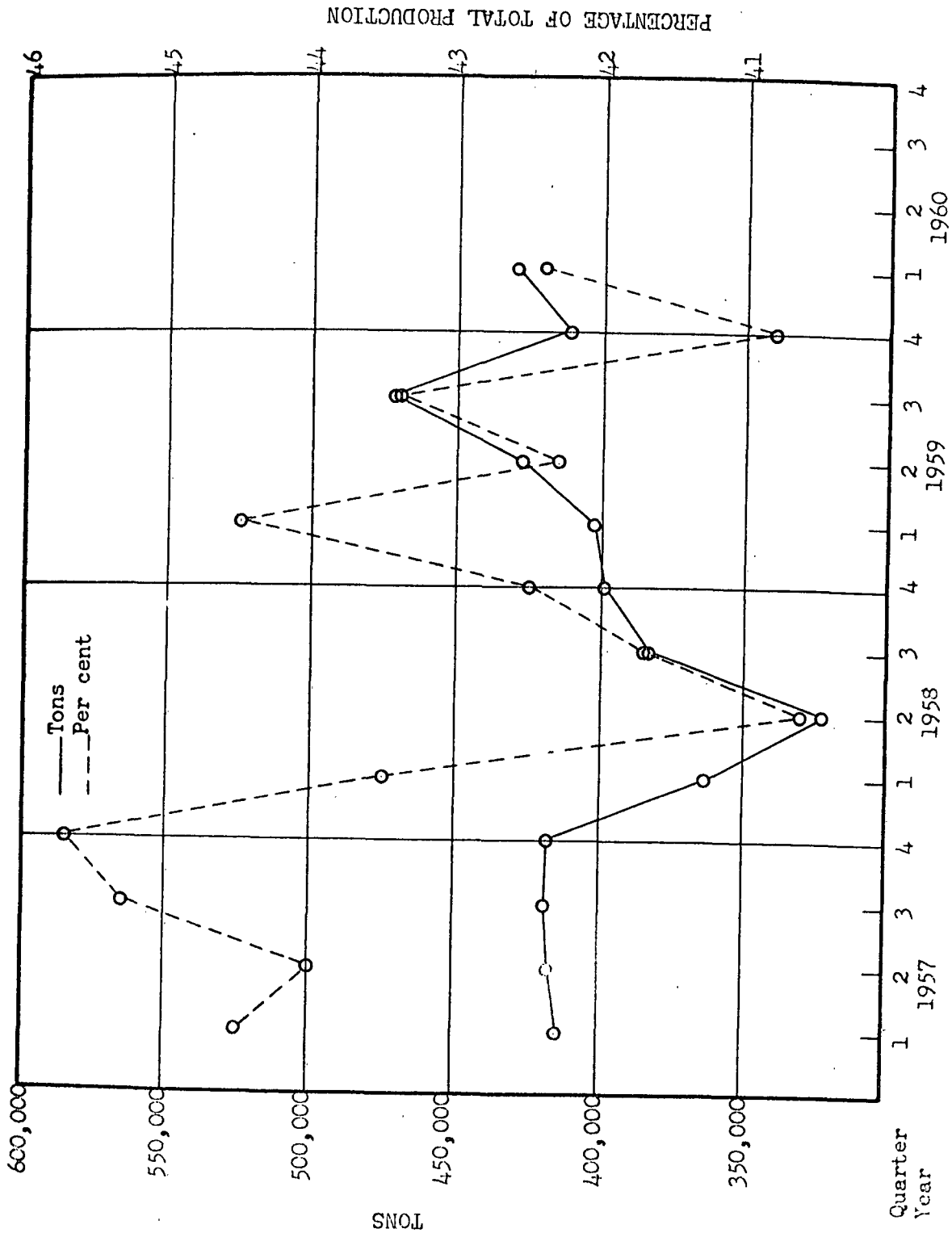


Figure 5. Production, 42 lb.

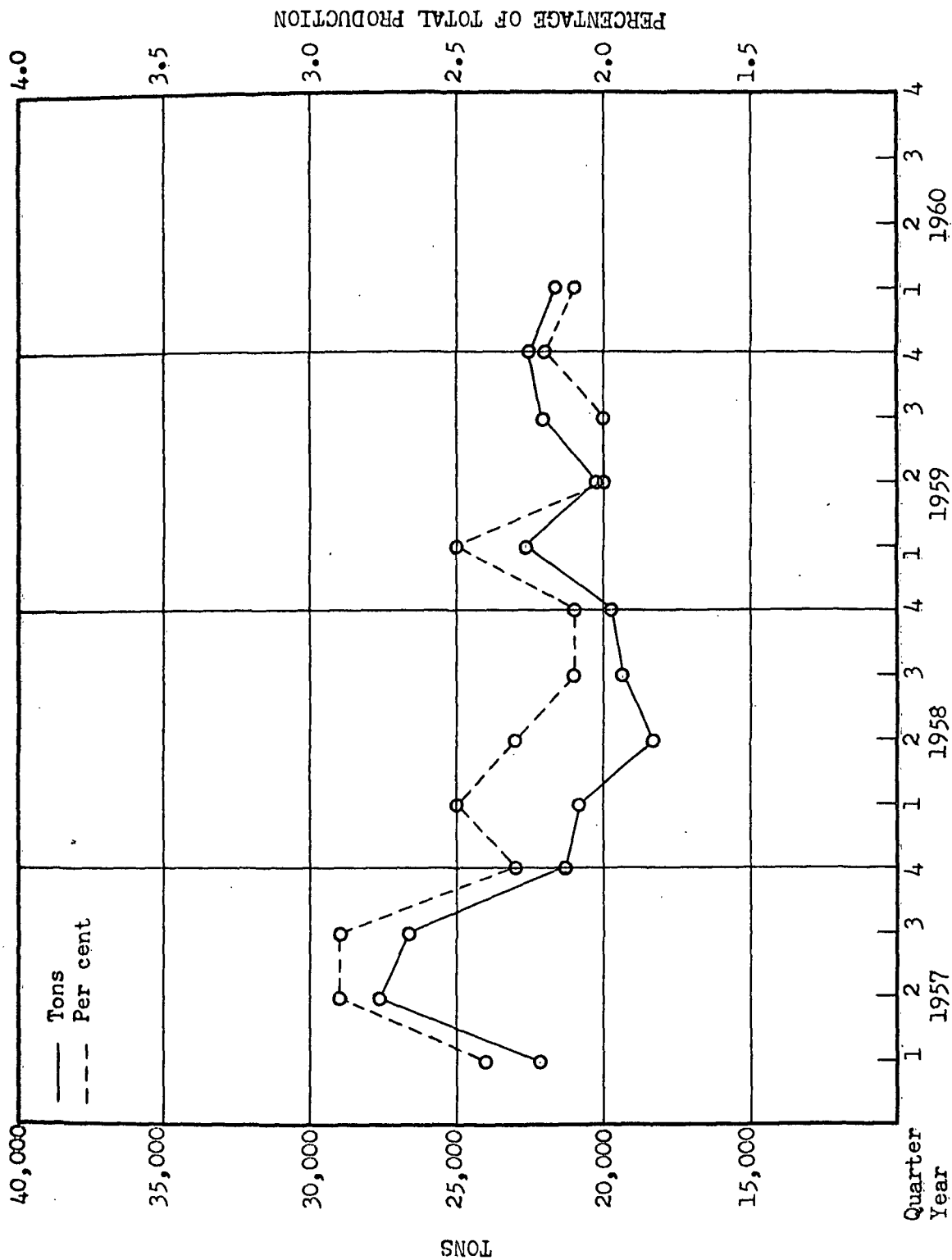


Figure 6. Production, 47 lb.



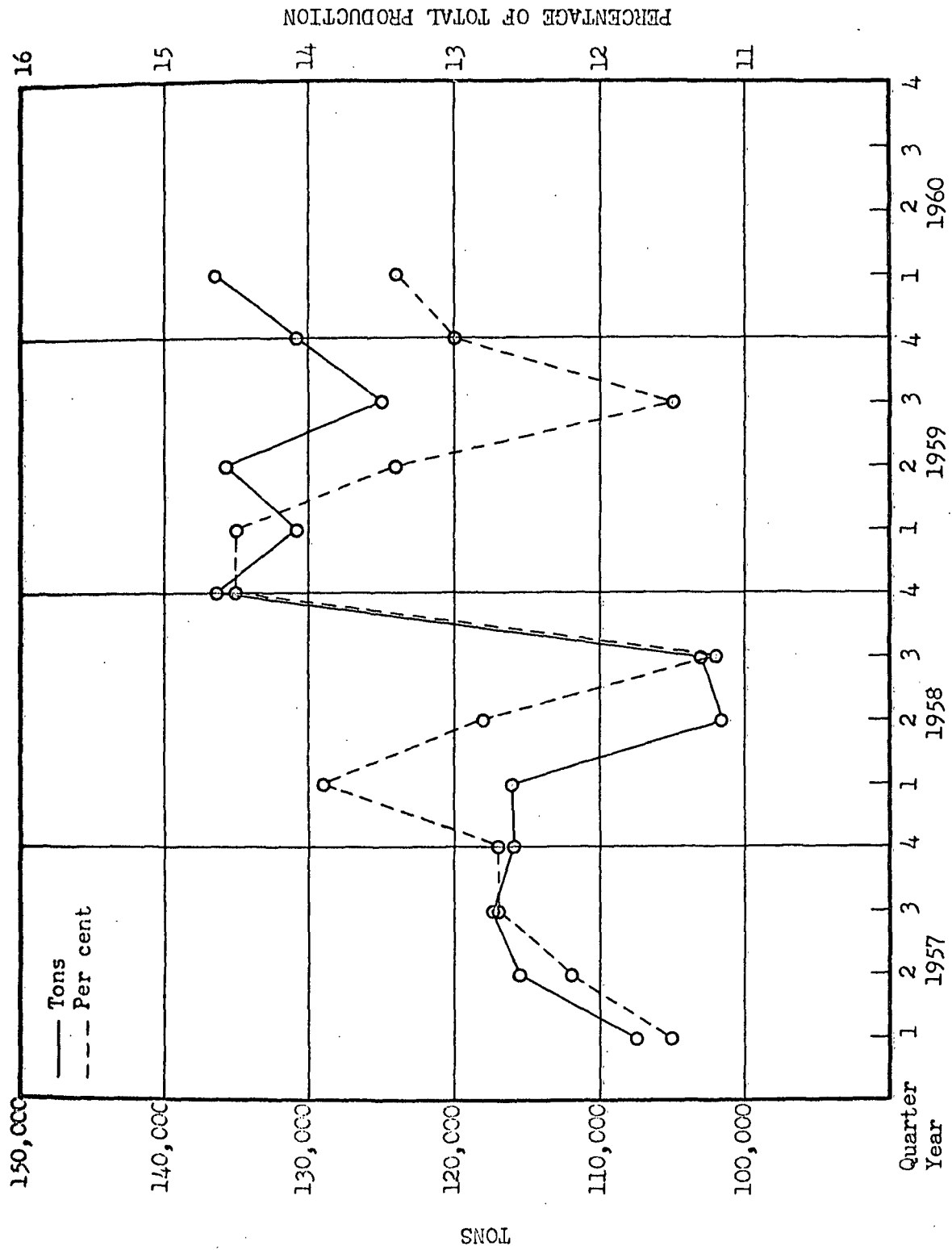


Figure 7. Production, 69 lb.

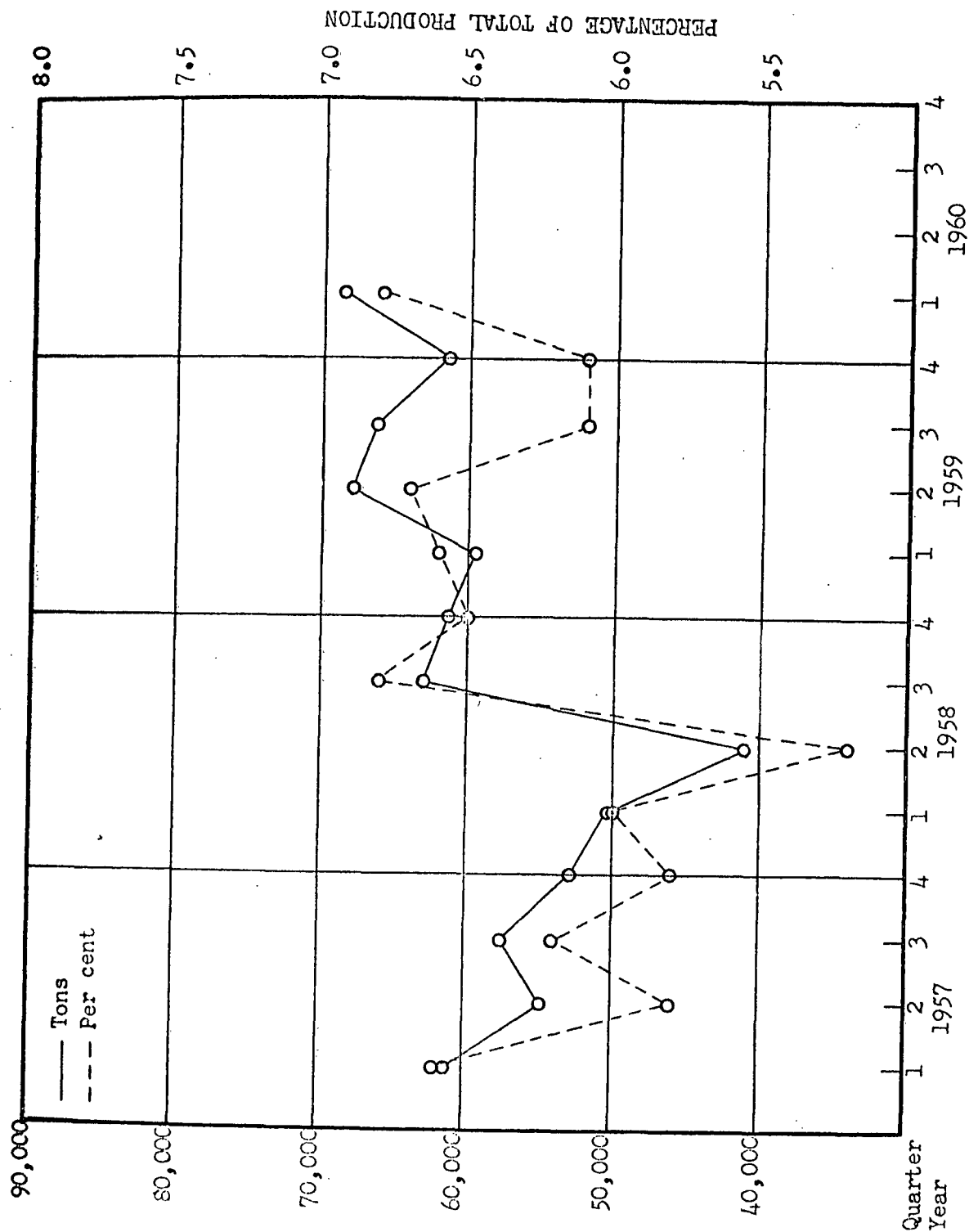


Figure 8. Production, 90 lb.

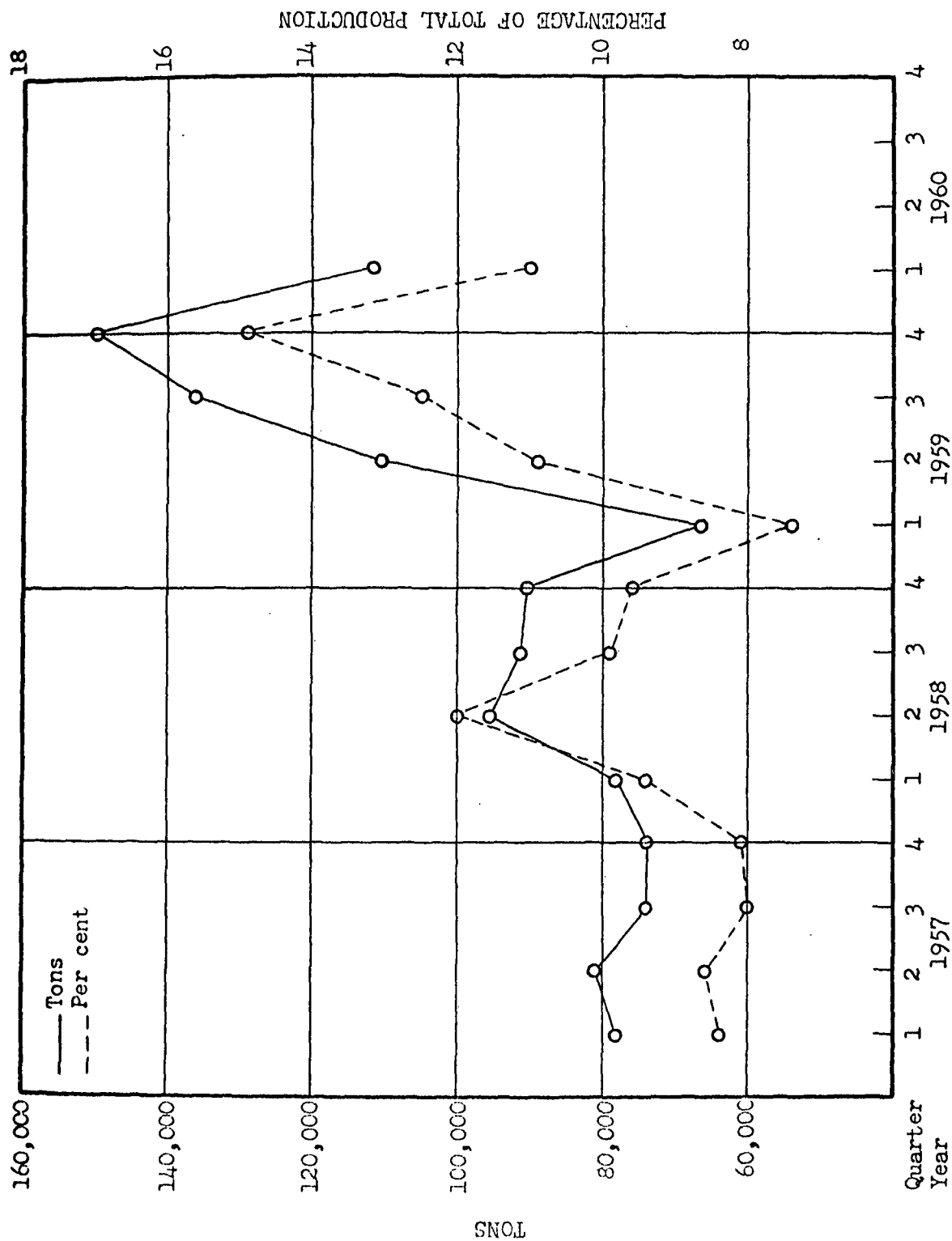


Figure 9. Production, Miscellaneous

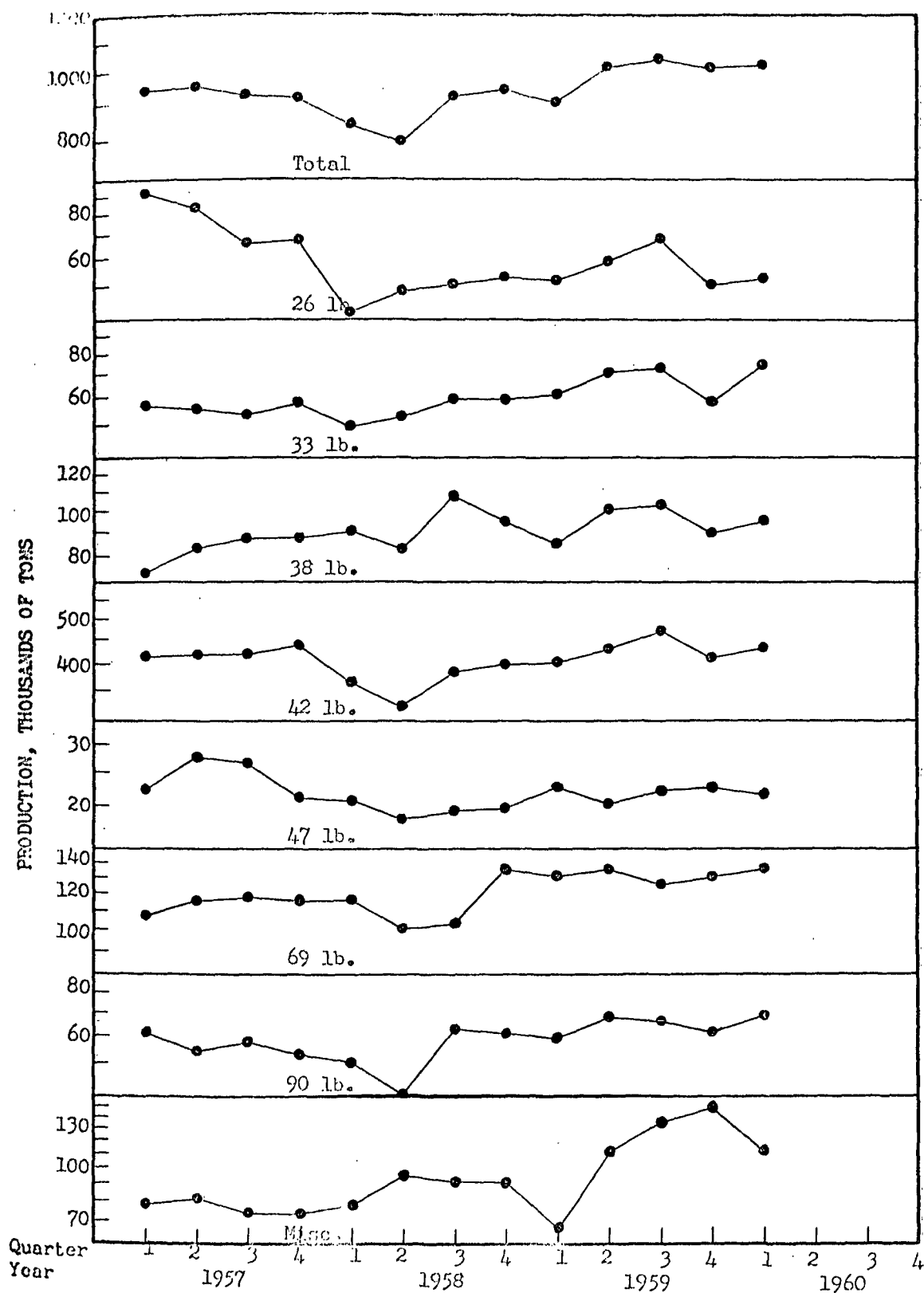

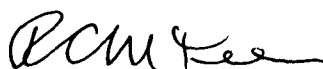


Figure 10. Comparison of Percentage Changes in Production for All Grades

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\_\_\_\_\_  
W. N. Hubert, Research Aide

  
\_\_\_\_\_  
R. C. McKee, Chief  
Container Section